+SECTION 00 41 13 - BID FORM

TO: WEST COUNTY EMS & FIRE PROTECTION DISTRICT
223 HENRY AVENUE
BALLWIN, MO 63021

FROM: _____ (Contractor)

_____ (Address)

_____

Operating as (strike out conditions that do not apply) an Individual, a Corporation, organized and existing under the law of the State of _____, a Partnership, a Joint Venture consisting of the firms of_____

_____.

BASE BID PROPOSAL
In response to your invitation to submit a proposal for the execution of all work described by the drawings and specifications titled:

West County EH1 – Concrete Repair

OWNER:
WEST COUNTY EMS & FIRE PROTECTION DISTRICT
223 HENRY AVENUE
MANCHESTER, MO 63021

FGM Project Number: 26-4697.01 DATE: September 24, 2026

and having examined the site where the Work is to be executed; and having become familiar with local conditions as they might in any way affect the cost and/or execution of the Work; and having carefully examined the aforesaid drawings, specifications, and other related documents and addenda thereto, the undersigned Bidder hereby proposes and agrees to provide all labor, materials, plant, equipment, transportation, and other facilities as necessary and/or required for the complete and satisfactory execution of the Work for which this proposal is submitted, for the lump-sum consideration as stated hereinafter:

Bidders must show bid amount in both words and figures. In case of discrepancy, amount shown in words shall govern.

BASE BID PROPOSAL
1. Bidder agrees to perform all of the Work in accordance with the contract documents for the sum of: (this Base Proposal to include allowance sums below).

_____

_____ Dollars ($_____).

INSTRUCTION TO BIDDERS

The owner will receive bids until **12:00pm CDT** on **October 9th, 2026** at West County EMS & Fire, 223 Henry Ave, Manchester, MO 63011. Bids received after that date will not be accepted and will be returned unopened.

ALLOWANCES

The undersigned has included the following Allowance cost with Base Bid Proposal. The amounts are for unforeseen conditions that are beyond the scope of work indicated in the drawings and specifications. The unit cost allowances will add or deduct from the Contract Sum if quantities exceed or are under the allowance amount. Any unused portion of the allowance shall be returned to the Owner by deduct change order at the completion of the project.

		Include in Base Bid the Following Amounts:
Allowance No. 1:	Removal and replacement of compromised sub-grade. Existing sub-grade may consist of earth, rock, and other materials. New fill should all be compacted granular rock, refer to specification. Include removal for 40 yards existing fill and import for 40 yards of compacted rock base. Expectation is to include labor for compaction of rock base in allowance.	$_____.___
Allowance No. 2:	Bidders shall include an allowance for private utility locate in the area of work.	$2,500

UNIT PRICES

When Unit Prices are required by Contract Documents or addenda thereto, the undersigned proposes to perform unit prices for hereinbefore stated Base Bid. The unit cost prices will add or deduct from the Contract Sum if quantities exceed or are under the allowance amount. The Owner may make written request for additional unit prices throughout this Contract when he deems it appropriate to meet project requirements. Supply all unit prices within five business days after date of request.

Unit Price 1:	Removal of unsatisfactory soil and concrete paving, then replacement with satisfactory soil material. Shall be based on truck loading of 10 cu. Yd.	+ $ _____._____/ 10 cu.yd.
Unit Price 2:	Installation of concrete pavement and compacted rock sub-base, delivered, formed, and placed, and finished. Shall be based on a single truck loading of 10 cu. Yd. loading.	+ $ _____._____/10 cu.yd.
Unit Price 2:	Installation of concrete expansion joint sealant.	+ $ _____._____/ ln. ft.

ADDENDA ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following addenda: (List by number and date appearing on each addendum. If all addenda are not acknowledged, the bid will be considered irregular).

Addendum No.	Dated	Addendum No.	Dated

BID SECURITY

Bid Security is attached, without endorsement, in the sum of (5% of Base Bid as submitted):

_____ Dollars ($_____).

The undersigned agrees that Bid Security may be retained by Owner until the Contract has been signed and required bonds have been made and delivered to the Owner.

GENERAL STATEMENT

The undersigned has checked all of the figures contained in this proposal and further understands that Owner will not be responsible for any errors or omissions made therein by the undersigned.

The undersigned agrees to assist and cooperate with Owner in preparing the formal Contract, and shall execute same and return it to Owner along with surety bonds and insurance certificates, as may be required by the specifications and other Contract Documents, within 10 days following its receipt.

The undersigned further agrees to begin work on said Contract as soon as practicable after date of "Contract" or "Notice to Proceed," whichever is earlier; or, in any event, not later than 15 days from date of such notification, unless instructed otherwise in Instructions to Bidders. In case the undersigned fails or neglects to appear within the specified time to execute the Contract the undersigned will be considered as having abandoned it and the Bid Security accompanying this proposal will be forfeited to Owner as liquidated damages for delay and loss caused to Owner by reason of such failure on the part of the undersigned.

It is understood that the right is reserved by Owner to reject any or all proposals, to waive all informalities in connection therewith, and to award a contract for any part of the Work or the Project as a whole. It is agreed that this proposal may not be withdrawn for a period of 60 days after it has been opened, without permission of the Owner.

The undersigned declares that the person(s) signing this proposal is/are fully authorized to sign on behalf of the named firm and to fully bind the named firm to all the conditions and provisions thereof.

It is agreed that no person(s) or company other than the firm listed below or as otherwise indicated hereinafter has any interest whatsoever in this proposal or the Contract that may be entered into as a result thereof, and that in all respects the proposal is legal and fair, submitted in good faith, without collusion or fraud.

It is agreed that the undersigned has complied or will comply with all requirements concerning licensing and with all other local, state, and national laws, and that no legal requirement has been or will be violated in making or accepting this proposal, in awarding the Contract to him, or in the prosecution of the Work required thereunder.

BIDDER SIGNATURE

Respectfully submitted this _____ day of _____, 2026.

_____
(Name of Firm)

BY _____

(SEAL - IF BIDDER
IS A CORPORATION)

SECTION 00 41 13

MATERIAL SUBSTITUTION LIST

To: WEST COUNTY EMS & FIRE PROTECTION DISTRICT
223 HENRY AVENUE
MANCHESTER, MO 63011

Project: WEST COUNTY EH1 – CONCRETE REPAIR

Sites: WEST COUNTY EMS & FIRE PROTECTION DISTRICT
223 HENRY AVENUE
MANCHESTER, MO 63011

FGM Project Number: 26-4967.01 DATE: September 24 2026

FROM: _____ (Contractor)

_____ (Address)

_____

MATERIAL SUBSTITUTION LIST

Submit within 24 hours after the "WEST COUNTY EMS & FIRE CONCRETE REPAIR" bid opening the following schedule of substitute materials and/or methods Bidder proposes to furnish on this job, with the difference in price being added to or deducted from Base Bid. Base Bid and Alternate Bid(s) are understood to include only those items which are definitely specified by manufacturer, trade names or otherwise.

Bidder understands that the selection of materials and/or methods is optional with Owner and approval or rejection of the substitutions below will be indicated prior to executing the Contract.

Listed items will not be considered in determining the lowest responsible bidder. Such determination will be made on the basis of the lowest combination of Base Bid and accepted Alternate Bids as set forth in Instructions to Bidders.

PRODUCT NAME AND/OR MANUFACTURER	ADD	DEDUCT
_____	_____	_____
_____	_____	_____

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

In proposing the Material or Equipment Substitutions herein the Bidder represents:

He has personally investigated the proposed substitution and has determined that it is equal or superior in all respects to that specified.

He will provide the same guarantee for the substitution as for the item specified.

He will coordinate installation of an accepted substitution into the Work, making all such changes as may be required for the Work to be complete in all respects.

He waives all claims for additional costs related to the substitution. Cost data is complete and includes all related costs under his Contract except for:

Architect/Engineer's redesign.
Costs under Contracts for other Work.

He will pay all redesign costs and additional costs to other Contractors.

BIDDER SIGNATURE

Respectfully submitted this _____ day of _____, 2026.

_____
(Name of Firm)

BY _____

(SEAL - IF BIDDER
IS A CORPORATION)

SECTION 32 13 13 - CONCRETE PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 00 and 01 Specification Sections, apply to this Section.

B. Related Sections:
1. N/A

1.2 SUMMARY

A. This Section includes exterior cement concrete pavement for the following:

1. Concrete sidewalks and pavements.
2. Concrete curbs.
3. Pavement marking paint.

1.3 DEFINITIONS

A. Testing Agency: Individual or company who will be providing concrete testing responsibilities for this project.

1.4 QUALITY ASSURANCE

A. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by requirements in the Contract Documents.

B. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.

C. Installation by a Contractor authorized and with a minimum of ten (10) years of documented experience for successful, high quality installations of concrete work specified herein.

D. Testing Agency Qualifications: Contractor shall engage an independent testing agency qualified according to ASTM E 329 to conduct concrete materials testing as documented according to ASTM D 3740 and ASTM E 548.

1.5 ACTION SUBMITTALS

A. Concrete mix design.

B. Concrete admixtures.

C. Concrete joint sealant.

D. Concrete expansion joint backer material.

E. Product data for concrete sealer.

PART 2 - PRODUCTS

2.1 CONCRETE MATERIALS

A. Concrete Pavement

1. Portland Cement: ASTM C 150, Type I or II.
2. Fine Aggregate: Limestone Sand, ASTM C 33, uniformly graded, from a single source.
3. Course Aggregate: Limestone Aggregate, ASTM C33, uniformly graded, from a single source.
4. Water: potable, ASTM C 94.

B. Admixtures

1. Admixtures: Certified by manufacturer to contain not more than 0.1 percent water-soluble chloride ions by mass of cement and to be compatible with other admixtures, as follows:

    a. Air-Entraining Admixture: ASTM C 260.
    b. Water-Reducing Admixture: ASTM C 494, Type A.

C. Materials that shall NOT be used:

    a. Cement substitutes
    b. Water reducing admixtures other than what is specified.
    c. Super Plasticizers.
    d. Calcium Chloride
    e. Aggregate materials containing lignite.

D. Curing Materials:

1. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.
2. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
3. Water: Potable.
4. Clear Solvent-Borne Liquid-Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

E. Related Materials:

1. Expansion Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber, or ASTM D 1752, cork or self-expanding cork with preinstalled bond breaker and removable top strip.
2. Joint Sealant: ASTM C 920, pourable, chemically curing elastomeric formulation.

2.2 CONCRETE MIXTURES

A. Prepare design mixtures, proportioned according to ACI 301, with the following properties:

1. Compressive Strength (28 Days): 4500 psi.
2. Maximum Water-Cement Ratio at Point of Placement: 0.45.
3. Slump Limit: 4 inches plus or minus 1 inch.
4. Air Content: 6 percent plus or minus 1.0 percent.

2.3 CONCRETE MIXING

Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M. Furnish batch certificates for each batch discharged and used in the Work.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Proof-roll aggregate base below concrete pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding.

3.2 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides for pavement to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.3 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

3.4 JOINTS

A. General: Form construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

B. Construction Joints: Set construction joints at side and end terminations of pavement and at locations where pavement operations are stopped for more than one-half hour unless pavement terminates at isolation joints.

C. Expansion Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, walks, other fixed objects, and where indicated.

D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness to match jointing of existing adjacent concrete pavement.

E. Edging: Tool edges of pavement, gutters, curbs, and joints in concrete after initial floating with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate tool marks on concrete surfaces.

3.5 CONCRETE PLACEMENT

A. Moisten aggregate base to provide a uniform dampened condition at time concrete is placed.

B. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.

C. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

D. Screed pavement surfaces with a straightedge and strike off.

E. Commence initial floating using bull floats or darbies to impart an open textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

F. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.

1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
2. Do not use frozen materials or materials containing ice or snow.
3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix designs.

G. Hot-Weather Placement: Place concrete according to recommendations in ACI 305R and as follows when hot-weather conditions exist:

1. Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 deg F. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
2. Cover reinforcement steel with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.

3. Fog-spray forms, reinforcement steel, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.
4. As soon as concrete is placed and formed employ moisture retention measures to prevent shrinkage cracking.

3.6 FINISHING

A. General: Do not add water to concrete surfaces during finishing operations.

B. Medium Textured Broom Finish: (sidewalks, pavements, integral color concrete, etc.) Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats, or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture. Seal as specified in Section 3.8.

1. Draw a soft bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a uniform, fine-line texture on sidewalks.

3.7 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Comply with ACI 306.1 for cold-weather protection.

C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

E. Curing Methods: Cure concrete by moisture-retaining-cover curing, curing compound or a combination of these methods.

3.8 CONCRETE SEALING

A. All concrete surfaces shall be sealed.

1. Broom finish concrete: Concrete penetrating sealer designed for use on new broom finish concrete. Sealer shall not change the appearance of the concrete. Sealer shall not impact the slip resistance of the concrete. Sealer may contain a curing agent and can be combined. Basis of design: V-SEAL 102 or approved equal.

3.9 PAVEMENT TOLERANCES

A. Comply with tolerances of ACI 117 and as follows:

1. Elevation: 1/4 inch.
2. Thickness: Plus 3/8 inch, minus 1/4 inch.
3. Surface: Gap below 10-foot-long, unleveled straightedge not to exceed 1/4 inch.
4. Contraction Joint Depth: Plus 1/4 inch, no minus.
5. Joint Width: Plus 1/8 inch, no minus.

3.10 REPAIRS AND PROTECTION

A. Remove and replace concrete pavement that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove damaged concrete pavement to the nearest joint.

B. Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement.

C. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign material. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.

3.11 QUALITY CONTROL

A. Testing Agency: Testing will be provided by the Testing Agency. All test reports will be submitted to the Architect and Owner's Representative no more than 24 hours after the test results are known.

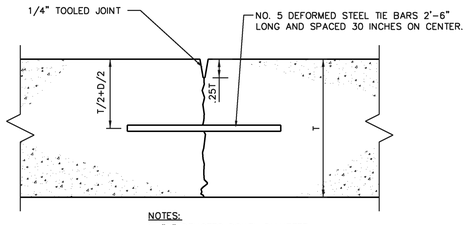
B. Testing agency shall test and report on every 4 concrete truck loads for compliance with required slump and entrained air.

C. Testing agency shall take 4 cylinders from every 4 concrete truck loads per day. 1 cylinder shall be tested for unconfined compressive strength at 7 days, 2 cylinders shall be tested for unconfined compressive strength at 28 days, and one shall be retained.

D. Additional testing and inspections, as necessary, will be performed in order to determine compliance of replaced or additional work.

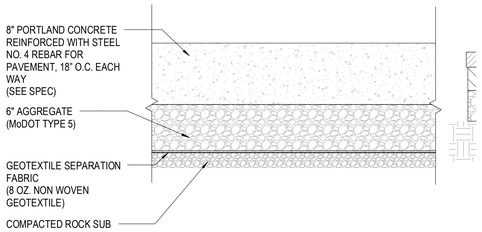
E. If concrete does not comply with specifications during testing, concrete will be rejected. Contractor is responsible to remove and replace concrete where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION 32 13 13



NOTES:
1. "D" DENOTES DOWEL DIAMETER
2. "T" DENOTES CONCRETE THICKNESS (SEE PAVEMENT SECTIONS)
3. SPACE TIE BARS LATERALLY IN JOINT AT 18 INCH CENTERS.
4. USE ONLY IN CONCRETE PAVEMENTS.
5. SAWCUT JOINTS WITHIN 16 HOURS OF PLACEMENT.
6. USE ONLY IN VEHICULAR PAVEMENT.
7. JOINTING LOCATIONS BY CONTRACTOR.

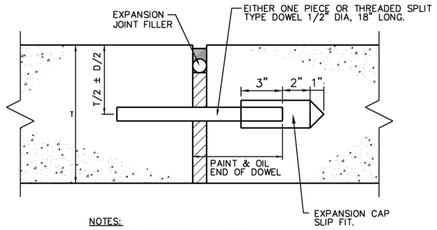
6 TIED CONTRACTION JOINT
N.T.S.



NOTES:

1. USE DOWELED EXPANSION JOINTS AND TIED CONTRACTION JOINTS FOR THIS TYPE OF PAVEMENT
2.PAVEMENT FINISH AND JOINTING LOCATIONS BY CONTRACTOR

5 HEAVY DUTY VEHICULAR CONCRETE
N.T.S.



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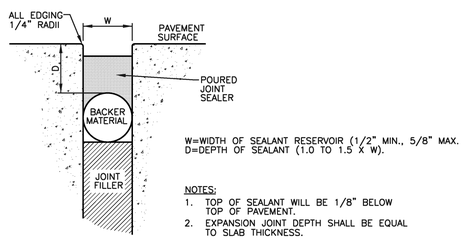
3. SPACE DOWELS LATERALLY IN JOINT AT 18 INCH CENTERS.
4. USE ONLY IN VEHICULAR PAVEMENT.
5. JOINTING LOCATIONS BY CONTRACTOR..

4 DOWELED EXPANSION JOINT
N.T.S.



W=WIDTH OF SEALANT RESERVOIR (1/2" MIN., 5/8" MAX.
D=DEPTH OF SEALANT (1.0 TO 1.5 X W).

NOTES:
1. TOP OF SEALANT WILL BE 1/8" BELOW TOP OF PAVEMENT.
2. EXPANSION JOINT DEPTH SHALL BE EQUAL TO SLAB THICKNESS.
3. JOINTING LOCATIONS BY CONTRACTOR.

3 EXPANSION JOINT
N.T.S.

PHASING AREAS DESCRIPTION

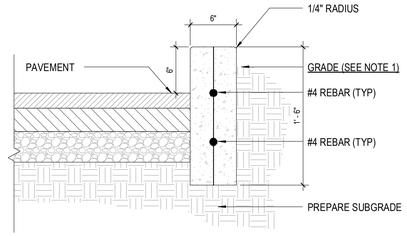
THE PHASING IS A STEPPED APPROACH FOR EXPLORATION OF THE EXTENT OF THE DAMAGE. THE CONTRACTOR IS TO FIRST DEMOLISH AND EXPLORE THE AREA LABELED PHASE 1 TO VISUALLY INSPECT AND MANUALLY PROBE EXTENT OF DAMAGE. IF NEEDED BASED ON VISUAL OBSERVATIONS AND MANUAL PROBING OF THE SUB-GRADE IN PHASE 1 THE CONTRACTOR IS TO THEN MOVE TO PHASE 2 AREA AND REPEAT THE PROCESS OF BREAK-OUT AND VISUAL INSPECTION/MANUAL PROBING OF THE SUB-GRADE WHERE POTENTIALLY DISTURBED OR OTHERWISE DETERIORATED. THEREAFTER, IN NEEDED BASED ON VISUAL OBSERVATIONS AND MANUAL PROBING OF THE SUB-GRADE WITHIN PHASE 2 AREA, THE CONTRACTOR IS TO THEN MOVE THE PHASE 3 AND REPEAT.

A MEETING ON SITE BY THE CONSTRUCTOR, THE ARCHITECT, AND OWNER SHALL BE CONVENED AT THE CONCLUSION OF EACH PHASE OF PAVEMENT BREAKOUT.

PHASE 1: CONTAINS THE EXISTING DRAINAGE BASIN. CONTRACTOR TO EVALUATE DAMAGE TO SUBGRADE, ANY EXISTING UTILITIES, AND CONDITION OF THE DRAINAGE BASIN AND DRAINAGE PIPING FOR FULL EXTENT OF DAMAGES.

PHASE 2: IF PHASE 1 DOES NOT UNCOVER ALL AREAS OF DETERIORATED SUB-GRADE, THEN THE CONTRACTOR SHALL CONTINUE BREAKOUT OF EXISTING CONCRETE PAVEMENT IN ORDER TO PERFORM EVALUATION AND VERIFICATION OF SUBGRADE CONDITIONS TO THE EXTENTS OUTLINED AS PHASE 2 ON THE SITE PLAN.

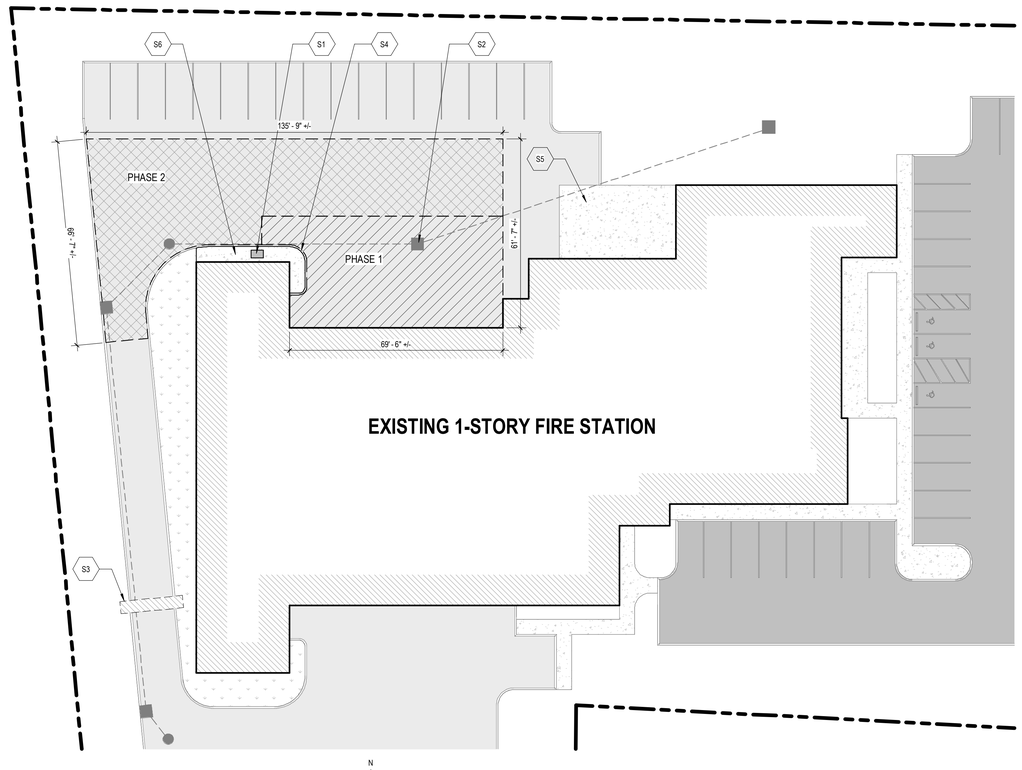
AFTER COMPLETION OF ALL REQUIRED BREAK-OUT OF EXISTING PAVEMENT, CONTRACTOR SHALL PERFORM AND THEN ENSURE PROPER COMPACTION OF ALL SUBGRADE VIA USE OF STANDARD MECHANICAL TAMPING AND VIBRATORY MACHINERY. CONTRACTOR SHALL SUBMIT TESTING AGENCY REPORTS TO THE ARCHITECT FOR OWNER RECORD. THEN CONTRACTOR SHALL REPLACE ALL HEAVY DUTY CONCRETE DRIVE PAVEMENT AND ADJACENT CURBING TO CONSTITUTE THE FULL REAR RAMP AS WAS IN PLACE PRIOR TO THE WATER LEAK EVENT.



NOTES:

1. GRADE BEHIND CURB MAY BE EITHER LAWN, WALK, OR PAVEMENT (SEE SITEPLAN). PLACE EXPANSION JOINTS AND CONTRACTION JOINTS IN CURB AS FOLLOWS: LAWNS - PLACE CONTRACTION JOINTS EVERY 5 FEET (MINIMUM) AND EXPANSION JOINTS EVERY 30 FEET (MINIMUM). WALKS AND PAVEMENTS - ALIGN BOTH CONTRACTION AND EXPANSION JOINTS IN CURB WITH CONTRACTION AND EXPANSION JOINTS IN ADJACENT WALK. PLACE JOINTS IN CURBS AT ALL TANGENT POINTS OF RADII, AND AT ALL OTHER LOCATIONS AS INDICATED ON THE SITE PLAN.
2. SAWCUT JOINTS WITHIN 16 HOURS OF PLACEMENT.

2 CONCRETE VERTICAL CURB
N.T.S.



1 ARCHITECTURAL SITE PLAN
1" = 20'-0"

SITE PLAN KEYED NOTES

TAG	DESCRIPTION
S1	CONCRETE PAD, CONFIRM FINAL SIZE AND LOCATION WITH OWNERS HVAC CONTRACTOR. INCLUDE WELDED WIRE MESH FABRIC. PROVIDE LEAN CONCRETE/COMPACTED BASE PER CONDENSOR MANUFACTURER REQUIREMENTS. COORDINATE WITH OWNERS HVAC CONTRACTOR FOR REMOVAL AND REINSTALLATION OF HVAC UNIT IN THIS AREA.
S2	EXISTING DRAINAGE STRUCTURE, CARE SHOULD BE TAKEN TO TEMPORARILY BRACE STRUCUTRE AS REQUIRED DURING PAVEMENT BREAKOUT. PERFORM SUBGRADE REMEDIATION AROUND STRUCUTRE AND SURROUNDING AREA AS NECESSARY.
S3	OWNER APPARATUS WILL NOT GO PAST THIS POINT DURING CONSTRUCTION.
S4	REPLACE SECTION OF CURB AND MAINTAIN AREA IN EXISTING PLANTER BED FREE OF DEBRIS AFTER COMPLETION OF WORK.
S5	DO NOT DEMO THIS SECTION OF EXISTING CONCRETE.
S6	NEW CONCRETE. REMOVE EXISTING LANDSCAPE. CONCRETE STOPP AT DOOR, AND PREP FOR 4" CONCRETE PAD WITH 4" COMPACTED SUBBASE. COORDINATE WITH FINAL LOCATION OF HVAC EQUIPMENT PAD. SLOPE WALKWAY AWAY FROM BUILDING. MAINTAIN AND COORDINATE PROTECTED AREAS FOR THE GAS METER, ELECTRICAL DISCONNECT, AND IRRIGATION BACKFLOW. REMOVE AND CAP IRRIGATION HEADS AND ACCOMPANYING LINES TO THOSE HEADS AS NECESSARY FROM BELOW THE SLAB.

SITE PLAN LEGEND

- PROPERTY LINE
- EXISTING SEWER LINE
- EXISTING MANHOLE
- EXISTING INLET
- EXISTING CONCRETE WALK PATH
- EXISTING CONCRETE PAVING
- EXISTING ASPHALT PAVING
- PHASE 1
- PHASE 2
- PHASE 3

PROJECT DESCRIPTION

THE WEST COUNTY FIRE ENGINE HOUSE 1 FACILITY EXPERIENCED AN UNDERGROUND WATER LEAK EVENT THAT POTENTIALLY UNDERMINED EXISTING CONCRETE PAVING ADJACENT TO THE APPARATUS BAY. THIS PROJECT IS TO EVALUATE THE EXTENT OF DAMAGE, VERIFY AND COMPACT OR REPLACE THE SUBGRADE, THEN REPLACE HEAVY DUTY CONCRETE DRIVE PAVEMENT IN THE AREAS REMOVED DURING EVALUATION AND VERIFICATION STEPS, AND PROTECTION OF EXISTING UTILITIES AND EXISTING CONSTRUCTION TO REMAIN SHALL BE FURNISHED. BREAKOUT FOR EVALUATION AND VERIFICATION OF SUB-GRADE CONDITIONS SHALL BE PERFORMED IN PHASES AS OUTLINED BELOW, SO THAT THE EXTENT OF THE SUBGRADE CONDITIONS REQUIRING REMEDIATION CAN BE DOCUMENTED AND REPAIRED, PRIOR TO ALL PAVEMENT BEING REPLACED IN A SINGLE PHASE.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE AND EXAMINE EXISTING CONDITIONS BEFORE SUBMITTING A BID FOR WORK. THE INTENT WILL BE TO REPLICATE EXISTING EXTENTS AND TYPES OF PAVEMENT THROUGH EXAMINATION AND REMEDIAL AND RESTORATIVE EFFORTS. THIS IS A WORKING FIRE ENGINE HOUSE AND WILL REMAIN IN SERVICE THROUGHOUT THE WORK.
2. THE CONTRACTOR SHALL VERIFY WHETHER PERMITS ARE REQUIRED, IF THEY ARE REQUIRED THE CONTRACTOR SHALL APPLY FOR AN OBTAIN NECESSARY PERMITS AND INSPECTIONS.
3. CONTRACTOR TO COORDINATE WITH OWNER TO ESTABLISH WORK SCHEDULE.
3. ALL WORK SHALL BE PERFORMED IN DRY CONDITIONS, WITH AMBIENT TEMPERATURES IN THE OPTIMAL RANGE RECOMMENDED BY THE PRODUCT MANUFACTURER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE CURING CONSTRUCTION. THE CONTRACTOR WILL REPAIR/REPLACE DAMAGED MATERIALS TO NEW CONDITION.
5. ALL REFUSE AND DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
6. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS DURING COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT ANY DAMAGE TO BELOW GRADE STRUCTURES.
8. BREAKOUT PER CONCRETE PANEL SHALL BE TO THE NEAREST WHOLE SLAB EDGE/JOINT. AT CONTRACTORS OPTION EXISTING PANELS CAN BE SAWCUT, BUT THE INTENT WILL STILL BE TO EVALUATE AND REPAIR SUB-GRADE CONDITIONS THEN REPLACE ALL REMOVED AND COMPROMISED PAVEMENT.
9. CONTRACTOR SHALL COMPACT ALL SUB-GRADE, WHETHER EXISTING TO REMAIN OR NEW TO ACHIEVE REQUIRED COMPACTION. REFER TO SPEC AND COMPACTION NOTES FOR GUIDELINES.
10. CONTRACTOR TO COORDINATE AND FURNISH TESTING AGENCY SERVICES AND FURNISH REPORTS AS A SUBMITTAL TO DOCUMENT ALL SUB-GRADE REMEDIATION AND COMPACTION PRIOR TO REPLACEMENT OF CONCRETE.
11. CONTRACTOR TO SUBMIT A FINAL EXPANSION JOINT LAYOUT PRIOR TO FINAL FLATWORK INSTALLATION, ONCE FINAL EXTENTS OF SUB-GRADE CONDITION IS REVEALED. EXPANSION JOINTS TO BE AGAINST OLD AND NEW FLATWORK, AND BETWEEN NEW FLATWORK AS NECESSARY PER SPECIFICATIONS.
12. BIDDERS SHALL MAINTAIN AND REPLACE ALL DOWNSPOUT BOOTS / LEADER LINES TO MATCH EXISTING, IN THE EVENTUALITY THEY BECOME DAMAGED, DISTURBED OR HAVE TO BE REMOVED FOR BREAK-OUT AND VERIFICATION PROCESS. UNLESS OTHERWISE INSTRUCTED, ALL DOWNSPOUT LOCATIONS SHALL REMAIN THE SAME FROM BOOT THROUGH / UNDER CONCRETE DRIVE PAVEMENT TO FINAL DISCHARGE IN THE AREA WAY STRUCTURE. SAME APPLIES TO CLEAN-OUTS. BIDDERS SHALL BE RESPONSIBLE TO VERIFY QUANTITY AND LOCATIONS OF ALL DOWNSPOUTS AND CLEAN-OUTS IN EXISTING.
13. BIDDERS SHALL ASSUME FIVE (5) TOTAL TRUCK LOADS OF HAUL OFF MATERIAL FROM THE SITE, TO INCLUDE SUB-GRADE, BROKEN UP CONCRETE PAVEMENT, ETC
14. BIDDERS SHALL ASSUME FIVE (5) TOTAL TRUCK LOADS OF IMPORTED 1" CLEAN FOR GRANULAR FILL DIRECTLY UNDER NEW / REPLACEMENT PAVEMENT – NOTE THAT THE SITE IS NOT ANTICIPATED TO REQUIRE AS MUCH AS FIVE (5) TRUCK LOADS OF NEW VOLUME, SO UNIT PRICES WILL BE UTILIZED TO REDUCE THE ACTUAL AMOUNT OF IMPORTED ROCK SUB-GRADE YOU UTILIZED.
15. IT SHALL BE THE BIDDER'S / CONTRACTOR'S RESPONSIBILITY TO FURNISH AND INSTALL A PROPERLY COMPACTED AND PREPARED SUB-GRADE PER THE PAVEMENT SECTION REQUIRED. THIS WILL INCLUDE NOT ONLY COMPACTION AND TESTING REPORTS FOR VERIFICATION, BUT ALSO MAY REQUIRE REMOVAL AND READJUSTMENT OF SOME SUB BASE IN ORDER TO PROVIDE THE SUB-BASE WHICH MATCHES THE REQUIRED DETAIL. UNIT PRICES SHALL BE UTILIZED TO ADD / DEDUCT AS REQUIRED FROM THE STIPULATED BID MEASUREMENTS, ETC.
16. ALL NEW TO EXISTING SLAB ADJACENT JOINTS SHALL BE DOWELED PER DETAILS.
17. ALL PERIMETERS OF BREAK-OUT AREAS TO BE REMOVED SHALL FIRST BE SAWCUT FULL-DEPTH PRIOR TO BREAK-OUT, TO PRESERVE ADJACENT MATERIALS NOT BEING REMOVED IN SAME PHASE / AREA OR POSSIBLY AT ALL. TAKE EXTRA CARE WHEN SAW-CUTTING AGAINST THE EXISTING BUILDING SLAB TO REMAIN.
18. FURNISH AND INSTALL SAW CUTTING AS REQUIRED PER SPECIFICATION, AT EJS AND CJS. ELIMINATE ROD AND SEALANT FROM COLD JOINTS IN NEW PAVEMENT, AND AT NEW TO EXISTING PAVEMENT BY KEEPING JOINTS TIGHT AND TOOLING CAREFULLY. IF ANY EXPANSION JOINTS WILL BE REQUIRED IN THE WORK AREA, UTILIZE THE DETAILS ON DRAWING AND SEAL AS INDICATED.

AGGREGATE SUBBASE COMPACTION NOTES

1: MATERIAL SPECIFICATION: ALL AGGREGATE SUBBASE MATERIAL LOCATED DIRECTLY BENEATH CONCRETE PAVEMENT SLABS SHALL CONSIST OF CRUSHED STONE CONFORMING TO TYPE 5 AGGREGATE SPECIFICATIONS. MATERIAL SHALL BE CLEAN, WELL-GRADED, AND FREE FROM ORGANIC MATTER, LUMP CLAYS, OR OTHER DELETERIOUS SUBSTANCES.
2: SUBGRADE PREPARATION & PROOF ROLLING: PRIOR TO PLACEMENT OF TYPE 5 AGGREGATE SUBBASE, THE UNDERLYING SUBGRADE SHALL BE SCARIFIED, MOISTURE-CONDITIONED, AND COMPACTED. THE COMPLETED SUBGRADE SHALL BE PROOF-ROLLED USING A FULLY LOADED TANDEM-AXLE DUMP TRUCK (MINIMUM 20 TONS) IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE. ANY AREAS EXHIBITING PUMPING, RUTTING, OR DEFLECTION SHALL BE EXCAVATED, BACKFILLED WITH APPROVED MATERIAL, AND RE-COMPACTED TO SPECIFICATION AT THE CONTRACTOR'S EXPENSE.
3: PLACEMENT AND LIFT THICKNESS: TYPE 5 AGGREGATE SUBBASE SHALL BE PLACED IN UNIFORM HORIZONTAL LIFTS. LOOSE LIFT THICKNESS SHALL NOT EXCEED 6 INCHES (150 MM) FOR LIGHTWEIGHT COMPACTION EQUIPMENT, OR 8 INCHES (200 MM) FOR HEAVY VIBRATORY ROLLERS, TO ENSURE UNIFORM DENSITY THROUGH THE FULL DEPTH OF THE LAYER.
4: COMPACTION REQUIREMENTS: AGGREGATE SUBBASE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557 (MODIFIED PROCTOR).
5: MOISTURE CONTROL: THE MOISTURE CONTENT OF THE AGGREGATE MATERIAL AT THE TIME OF COMPACTION SHALL BE MAINTAINED WITHIN ±2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ASTM D1557 LABORATORY TEST.
6: QUALITY ASSURANCE & TESTING: FIELD DENSITY TESTING SHALL BE PERFORMED BY AN INDEPENDENT APPROVED TESTING LABORATORY USING A NUCLEAR DENSITY GAUGE IN ACCORDANCE WITH ASTM D6938. TESTING FREQUENCY SHALL BE A MINIMUM OF ONE (1) TEST PER 2,000 SQUARE FEET PER LIFT, OR A MINIMUM OF THREE (3) TESTS PER DAY OF PLACEMENT, WHICHEVER IS GREATER. CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE WITH COPIES OF ALL TEST RESULTS PRIOR TO PLACING CONCRETE OVERLAY.

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2026-09-24

	ISSUANCE	
NO	DATE	DESCRIPTION
1	2026-09-24	ISSUE FOR BID

WEST COUNTY EH1 - CONCRETE REPAIR
WEST COUNTY EH1
223 HENRY AVENUE
MANCHESTER, MO 63021

ISSUED FOR BID

ARCHITECTURAL SITE PLAN

SHEET NO.
A0.1

JOB NO. 26-4697.01

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